

Set Name Query  
side by side

DB USPT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR YES; OP AND

<u>Set Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
			result set
L5	L4 and (producing adj (xylitol or D-xylulose))	10	<u>L5</u>
L4	L3 and (culturing and (bacterium or bacteria or microorganism))	130	<u>L4</u>
L3	(xylitol or (D-xylulose)) same (glucose)	2293	<u>L3</u>
L2	L1 and (xylitol or D-xylulose)	10	<u>L2</u>
L1	Mihara-yasuhiro.in.	27	<u>L1</u>

END OF SEARCH HISTORY

10625579 20222192 PMID: 10758893

**\*Asaia\* bogorensis gen. nov., sp. nov., an unusual acetic acid bacterium in the alpha-Proteobacteria.**

Yamada Y; Katsura K; Kawasaki H; Widystuti Y; Saono S; Seki T; Uchimura T; Komagata K

Department of Applied Biology and Chemistry, Faculty of Applied Bioscience, Tokyo University of Agriculture, Japan.

International journal of systematic and evolutionary microbiology (ENGLAND) Mar 2009, 59 Pt 2 p823-9, ISSN 1466-5026 Journal Code: DKU

Languages: ENGLISH

Document type: Journal Article

Record type: Completed

**\*Asaia\* bogorensis gen. nov., sp. nov., an unusual acetic acid bacterium in the alpha-Proteobacteria.**

... in the acetic acid bacteria lineage, but distant from the genera Acetobacter, Gluconobacter, Acidomonas and Gluconacetobacter. On the basis of the above characteristics, the name \*Asaia\* bogorensis gen. nov., sp. nov. is proposed for these isolates. The type strain is isolate 71T (= NRIC 0311T = JCM 10569T).

?ds

Set	Items	Description
S1	1087	(XYLITOL OR D-KYLULOSE) (S) (GLUCOSE)
S2	11	S1 (S) (BACTERIUM OR MICROORGANISM)
S3	9	RD (unique items)
S4	0	S1 AND (ACETOBACTERACEA)
S5	0	S1 AND (ASAIA)
S6	0	ASAIA
S7	2	RD (unique items)

?s s1 and (zucharibacter)

1087	S1
0	ZUCCHARIBACTER
S8	0 S1 AND (ZUCCHARIBACTER)

?ds

Set	Items	Description
S1	1087	(XYLITOL OR D-KYLULOSE) (S) (GLUCOSE)
S2	11	S1 (S) (BACTERIUM OR MICROORGANISM)
S3	9	RD (unique items)
S4	0	S1 AND (ACETOBACTERACEA)
S5	0	S1 AND (ASAIA)
S6	0	ASAIA
S7	2	RD (unique items)
S8	0	S1 AND (ZUCCHARIBACTER)

?logoff

03mar02 10:39:01 User259876 Session D321.2

\$1.27 0.398 DialUnits File155

\$0.84 4 Type(s) in Format 3

\$0.84 4 Types

\$2.11 Estimated cost File155

\$2.15 0.383 DialUnits File5

\$8.75 5 Type(s) in Format 3

\$8.75 5 Types

\$10.90 Estimated cost File5

\$1.69 0.331 DialUnits File76

\$3.70 3 Type(s) in Format 3

\$3.70 3 Types

\$5.39 Estimated cost File76

OneSearch, 3 files, 1.112 DialUnits FileOS

\$0.66 TYMNET

\$19.06 Estimated cost this search

\$19.40 Estimated total session cost 1.207 DialUnits

### Status: Path 1 of [Dialog Information Services via Modem]

### Status: Initializing TCP/IP using (UseTelnetProto 1 ServiceID pto-dialog)  
Trying 3106900061...Open

DIALOG INFORMATION SERVICES  
PLEASE LOGON:  
\*\*\*\*\* HHHHHHHH SSSSSSSS?

### Status: Signing onto Dialog  
\*\*\*\*\*  
ENTER PASSWORD:  
\*\*\*\*\* HHHHHHHH SSSSSSSS? \*\*\*\*\*

Welcome to DIALOG  
### Status: Connected

Dialog level 02.02.11D

Last logoff: 05mar02 08:53:04  
Logon file001 09mar02 10:29:40  
\*\*\* ANNOUNCEMENT \*\*\*  
\*\*\*

--Connect Time joins DialUnits as pricing  
options on Dialog. See HELP CONNECT for  
information.  
\*\*\*

--SourceOne patents are now delivered to your  
email inbox as PDF replacing TIFF delivery.  
See HELP SOURCE1 for more information.  
\*\*\*

--Important news for public and academic  
libraries. See HELP LIBRARY for more information.  
\*\*\*

--Important Notice to Freelance Authors--  
See HELP FREELANCE for more information  
\*\*\*

For information about the access to file 43 please see Help News43.  
\*\*\*

NEW FILES RELEASED  
\*\*\*TRADEMARKSCAN-Japan (File 669)  
\*\*\*

UPDATING RESUMED  
\*\*\*Delphes European Business (File 481)  
\*\*\*

RELOADED  
\*\*\*CLAIMS/US PATENTS (Files 340, 341, 942)  
\*\*\*Kompass Western Europe (590)  
\*\*\*DSB - Dun's Market Identifiers (516)

REMOVED  
\*\*\*Washington Post will be removed on 3/16/2002 (File 146)  
\*\*\*Books in Print (File 470)  
\*\*\*Court Filings (File 733)  
\*\*\*Microcomputer Software Guide Online (File 278)  
\*\*\*Publishers, Distributors & Wholesalers of the U.S. (File 450)  
\*\*\*State Tax Today (File 791)  
\*\*\*Tax Notes Today (File 791)  
\*\*\*Worldwide Tax daily (File 792)

\*\*\*New document supplier\*\*\*  
IMED has been changed to INFOTRIE (see HELP CINFOTRI)

>>>Get immediate news with Dialog's First Release  
news service. First Release updates major newswire  
databases within 15 minutes of transmission over the

wire. First Release provides full Dialog searchability and full-text features. To search First Release files in OneSearch simply BEGIN FIRST for coverage from Dialog's broad spectrum of news wires.

>>> Enter BEGIN HOMEBASE for Dialog Announcements <<<  
>>> of new databases, price changes, etc. <<<  
\*\*\*\*\*

KWIC is set to 50.

HIGHLIGHT set on as '\*'  
\*\*\*\*\*

\*\*\*\*\*

File 1:ERIC 1966-2002/Feb 05  
(c) format only 2002 The Dialog Corporation

Set Items Description

--- -----

Cost is in DialUnits

?b 155, 5, 76

09mar02 10:29:50 User259875 Session D321.1  
\$0.33 0.095 DialUnits File1  
\$0.33 Estimated cost File1  
\$0.01 TYMNET  
\$0.34 Estimated cost this search  
\$0.34 Estimated total session cost 0.095 DialUnits

SYSTEM:OS - DIALOG OneSearch

File 155: MEDLINE(R) 1966-2002/Mar W1

File 5:Biosis Previews(R) 1969-2002/Mar W1  
(c) 2002 BIOSIS

File 76: Life Sciences Collection 1982-2002/Jan  
(c) 2002 Cambridge Sci Abs

\*File 76: UDs have been manually adjusted to reflect the current months data. There is no data missing.

Set Items Description

--- -----

?s (xylitol or D-xylulose) (s) (glucose)  
4005 XYLITOL  
23 D-KYLULOSE  
493086 GLUCOSE

S1 1087 (XYLITOL OR D-KYLULOSE) (S) (GLUCOSE)

?s sl (s) (bacterium or microorganism)

1087 S1  
55945 BACTERIUM  
55675 MICROORGANISM

S2 11 S1 (S) (BACTERIUM OR MICROORGANISM)

?rd

...completed examining records

S3 9 BD (unique items)

?t s3/3,k/all

3/3,K/1 (Item 1 from file: 155)  
DIALOG(R) File 155: MEDLINE(R)

06771828 92011193 PMID: 1917724

The characteristics of a new non-spore-forming cellulolytic mesophilic anaerobe strain CM126 isolated from municipal sewage sludge.

Nittispraser S; Temmes A

Department of Microbiology, University of Helsinki, Finland.

Journal of applied bacteriology (ENGLAND) Aug 1991, 71 (2) p154-61,  
ISSN 0021-8847 Journal Code: HDJ

Languages: ENGLISH

Document type: Journal Article

Record type: Completed

A new mesophilic anaerobic cellulolytic \*bacterium\*, CM126, was isolated from an anaerobic sewage sludge digester. The organism was non-spore-forming, rod-shaped, Gram-negative and motile with peritrichous flagella. It fermented microcrystalline Avicel cellulose, xylan, Solka floc cellulose, filter paper, L-arabinose, D-xylose, beta-methyl xyloside, D-\*glucose\*, cellobiose and \*xylitol\* and produced indole. The G + C content was 36. Acetic acid, ethanol, lactic acid, pyruvic acid, carbon dioxide and hydrogen were produced as metabolic products...

3/3,K/2 (Item 2 from file: 155)  
DIALOG(R) File 155: MEDLINE(R)

04437764 82159628 PMID: 7039567

**Extracellular hydrolase activity of the cells of the oral \*bacterium\* Streptococcus mutans isolated from man and grown on \*glucose\* or \*xylitol\***

Knuutila ML; Makinen KK  
Archives of oral biology (ENGLAND) 1981, 26 (11) p899-904, ISSN 0003-9969 Journal Code: 83M  
Languages: ENGLISH  
Document type: Journal Article  
Record type: Completed

**Extracellular hydrolase activity of the cells of the oral \*bacterium\* Streptococcus mutans isolated from man and grown on \*glucose\* or \*xylitol\***

3/3,K/3 (Item 1 from file: 5)  
DIALOG(R) File 5:Biosis Previews(R)  
(c) 2002 BIOSIS. All rts. reserv.

13515806 BIOSIS NO.: 200200144627

**Microorganisms and method for producing xylitol or d-xylulose.**

AUTHOR: Mihara Yasuhiro(a); Takeuchi Sonoko; Jojima Yasuko; Tonouchi Naoto; Fudei Eiyosuke; Yokozeiki Kenzo  
AUTHOR ADDRESS: (a)Kawasaki\*\*Japan  
JOURNAL: Official Gazette of the United States Patent and Trademark Office Patents 1254 (1):pNo Pagination Jan. 1, 2002  
MEDIUM: e-file  
ISSN: 0098-1133  
DOCUMENT TYPE: Patent  
RECORD TYPE: Abstract  
LANGUAGE: English

**ABSTRACT:** According to the present invention, there are provided microorganisms having an ability to producing \*xylitol\* or D-xylulose by fermentation, and a method for producing \*xylitol\* or D-xylulose using the microorganisms. Osmophilic microorganisms were collected from soil, and the obtained microorganisms were searched for a \*bacterium\* having an ability to produce \*xylitol\* or D-xylulose from \*glucose\*. \*Xylitol\* or D-xylulose is produced by culturing an isolated \*bacterium\* in a suitable medium to accumulate \*xylitol\* or D-xylulose in the medium, and collecting \*xylitol\* or D-xylulose from the medium.

3/3,K/4 (Item 2 from file: 5)  
DIALOG(R) File 5:Biosis Previews(R)  
(c) 2002 BIOSIS. All rts. reserv.

13274416 BIOSIS NO.: 200100481565

**Method for producing xylitol or D-xylulose in bacteria.**

AUTHOR: Takeuchi Sonoko(a); Tonouchi Naoto; Yokozeiki Kenzo  
AUTHOR ADDRESS: (a)Kawasaki\*\*Japan

JOURNAL: Official Gazette of the United States Patent and Trademark Office  
Patents 1245 (4): pN<sup>o</sup> Pagination Apr. 24, 2001  
MEDIUM: e-file  
ISSN: 0098-1133  
DOCUMENT TYPE: Patent  
RECORD TYPE: Abstract  
LANGUAGE: English

ABSTRACT: \*Xylitol\* or D-xylulose is produced through direct fermentation from \*glucose\* by culturing a \*microorganism\* belonging to the genus Gluconobacter, Acetobacter or Frateuria, and having an ability to produce \*xylitol\* or D-xylulose in a suitable medium to accumulate \*xylitol\* or D-xylulose in the medium, and collecting \*xylitol\* or D-xylulose from the medium.

**3/3,K/5 (Item 3 from file: 5)**  
DIALOG(R) File 5:Biosis Previews(R)  
(c) 2002 BIOSIS. All rts. reserv.

06715995 BIOSIS NO.: 000088025421

**EFFECT OF CARBON AND NITROGEN SOURCE OF THE YIELD OF D GLUCOSE ISOMERASE IN STREPTOMYCES-ROSEOCASTANEUS STRAIN NO. 336**

AUTHOR: PAN R; WANG Y  
AUTHOR ADDRESS: DEP. BIOL., UNIV. SCI. AND TECHNOLOGY OF CHINA, HEFEI.  
JOURNAL: ACTA MICROBIOL SIN 28 (4). 1988. 325-332. 1988  
FULL JOURNAL NAME: Acta Microbiologica Sinica  
CODEN: WSHPA  
RECORD TYPE: Abstract  
LANGUAGE: CHINESE

...ABSTRACT: 30.degree. C on a rotary shaker (160-180 r/min.). In the 15 monosaccharides and sugar alcohols tested, L-arabinose, D-xylose and D-\*glucose\* are found to be most effective carbon source for the formation of the enzyme. Glycerol, \*xylitol\* and sorbitol inhibit the yield of enzyme. In the 8 oligosaccharide, cellobiose, maltose, and sucrose accelerate the yield of enzyme obviously. In the 5 polysaccharides...

...1 or 3:1 is favourable on the formation of enzyme. If the C/N ratio is decreased, they will promote the growth of the \*microorganism\* and decrease the yield of enzyme. The highest activity of D-\*glucose\* isomerase (180 u/ml) was obtained in about 4 days by a culture grown with wheat bran hydrolysate-corn steep liquor.

**3/3,K/6 (Item 4 from file: 5)**  
DIALOG(R) File 5:Biosis Previews(R)  
(c) 2002 BIOSIS. All rts. reserv.

04338714 BIOSIS NO.: 000078068256

**LOSS OF SENSITIVITY TO XYLITOL BY STREPTOCOCCUS-MUTANS LG-1**  
AUTHOR: GAUTHIER L; VADEBONCOEUR C; MAYRAND D  
AUTHOR ADDRESS: ECOLE DE MEDECINE DENTAIRE, UNIV. LAVAL, QUEBEC, QUE. G1K 7P4, CAN.  
JOURNAL: CARIRES RES 18 (4). 1984. 289-295. 1984  
FULL JOURNAL NAME: Caries Research  
CODEN: CAREB  
RECORD TYPE: Abstract  
LANGUAGE: ENGLISH

ABSTRACT: The effect of \*xylitol\* on the growth of *S. mutans* LG-1 was investigated under various conditions. Concentrations of \*xylitol\* ranging from 0.5 to 2% increased the time usually needed by the cells to reach the stationary phase in the presence of 0.2% \*glucose\*, mannose, lactose, mannitol or sorbitol. \*Xylitol\* had no effect in the presence of fructose or sucrose. The \*xylitol\*-mediated inhibition was not modified

by temperature or pH variations or by the presence or absence of O<sub>2</sub>. Repeated culturing in the presence of \*xylitol\* plus one of the above-mentioned sugars enabled the \*bacterium\* to tolerate the presence of \*xylitol\*. The cells, however, were still unable to grow at the expense of \*xylitol\*. Evidently, this adaptive process arose from a mutational event.

**3/3,K/7 (Item 5 from file: 5)**  
DIALOG(R) File 5:Biosis Previews (R)  
(c) 2002 BIOSIS. All rts. reserv.

03580739 BIOSIS NO.: 000073083820

**EXTRACELLULAR HYDROLASE ACTIVITY OF THE CELLS OF THE ORAL \*BACTERIUM\* STREPTOCOCCUS-MUTANS ISOLATED FROM HUMANS AND GROWN ON \*GLUCOSE\* OR \*XYLITOL\***

AUTHOR: KNUJTTILA M L E; MAKINEN K K  
AUTHOR ADDRESS: INST. DENTISTRY, UNIV. KUOPIO, KUOPIO, FINL.  
JOURNAL: ARCH ORAL BIOL 26 (11). 1981. 899-904. 1981  
FULL JOURNAL NAME: Archives of Oral Biology  
CODEN: AOBIA  
RECORD TYPE: Abstract  
LANGUAGE: ENGLISH

**EXTRACELLULAR HYDROLASE ACTIVITY OF THE CELLS OF THE ORAL \*BACTERIUM\* STREPTOCOCCUS-MUTANS ISOLATED FROM HUMANS AND GROWN ON \*GLUCOSE\* OR \*XYLITOL\***

**3/3,K/8 (Item 1 from file: 76)**  
DIALOG(F) File 76:Life Sciences Collection  
(c) 2002 Cambridge Sci Abs. All rts. reserv.

01790467 3565343

**Process for manufacturing xylose**  
Leleu, J. B.; Duflot, P.; Caboche, J. J.  
Roquette Freres (France)  
PATENT NUMBER: US 5238826  
(1993)  
DOCUMENT TYPE: Patent LANGUAGE: ENGLISH  
SUBFILE: Microbiology Abstracts A: Industrial & Applied Microbiology

A process for the manufacture of D-xylose comprising, subjecting a syrup of D-\*glucose\* to aerobic fermentation by means of an osmophilic \*microorganism\* to convert the D-\*glucose\* to D-arabitol containing \*xylitol\* as an impurity.

**3/3,K/9 (Item 2 from file: 76)**  
DIALOG(F) File 76:Life Sciences Collection  
(c) 2002 Cambridge Sci Abs. All rts. reserv.

00810917 0875562  
**Purification and properties of a novel polyol dehydrogenase of bacterial origin.**  
Dhawale, M.R.; Krcpinski, A.M.; Hay, G.W.; Szarek, W.A.  
Carbohydrate Res. Inst., Queen's Univ., Kingston, Ont. K7L 3N6, Canada  
FEMS MICROBIOL. LETT. vol. 25, no. 1, pp. 5-10 (1984.)  
DOCUMENT TYPE: Journal article LANGUAGE: ENGLISH  
SUBFILE: Microbiology Abstracts Section B: Bacteriology; Microbiology Abstracts Section A: Industrial and Applied Microbiology; Biochemistry Abstracts Part 3: Amino Acids, Peptides and Proteins

A \*bacterium\*, as yet unidentified, has been isolated from floor dust by direct selection on minimal agar using L-glucitol (D-gulitol) as the sole carbon energy source. The \*bacterium\* possesses a constitutive enzyme which

catalyzes the reaction: L-glucitol + NAD super(+) arrow right D-sorbitose + NADH + H super(+). A new species of enzyme has been induced by L-arabinitol or ribitol, but not L- or D-glucitol, and the induction is only partially counteracted by the \*glucose\*-repression effect. The constitutive enzyme was purified by fractionation on Sephadex G-200 gel and chromatography on DEAE Biogel A. The enzyme required NAD super(+), but not NADP super(+), as a cofactor. It oxidizes also ribitol, \*xyitol\* and L-arabinitol, but not D-arabinitol, lactitol or a variety of other commercially available aldитols. The enzyme is not inhibited by 10 mM sodium...

?ds

Set	Items	Description
S1	1087	(XYLITOL OR D-XYLOOSE) (S) (GLUCOSE)
S2	11	S1 (S) (BACTERIUM OR MICROORGANISM)
S3	9	RD (unique items)
?s s1 and (acetobacteraceae)		
	1087	S1
	0	ACETOBACTERACEA
S4	0	S1 AND (ACETOBACTERACEA)
?s s1 and (Asaia)		
	1087	S1
	0	ASAIA
S5	0	S1 AND (ASAIA)
?s asaia		
	S6	0 ASAIA
Trd		
...completed examining records		
	S7	2 RD (unique items)
?t s7/3,k/all		

7/3,K/1 (Item 1 from file: 155)  
DIALOG(R) File 155: MEDLINE(R)

11281824 21217389 PMID: 11321102

\*Asaia\* siamensis sp. nov., an acetic acid bacterium in the alpha-proteobacteria.

Katsura K; Kawasaki H; Potacharoen W; Saono S; Seki T; Yamada Y; Uchimura T; Komagata K

Department of Applied Biology and Chemistry, Faculty of Applied Bioscience, Tokyo University of Agriculture, Japan.

International journal of systematic and evolutionary microbiology (England) Mar 2001, 51 (Pt 2) p559-63, ISSN 1466-5026 Journal Code: IJKU

Languages: ENGLISH

Document type: Journal Article

Record type: Completed

\*Asaia\* siamensis sp. nov., an acetic acid bacterium in the alpha-proteobacteria.

... approach for acetic acid bacteria. Phylogenetic analysis based on 16S rRNA gene sequences showed that the isolates were located within the cluster of the genus \*Asaia\*. The isolates constituted a group separate from \*Asaia\* bogorensis on the basis of DNA relatedness values. Their DNA G+C contents were 58.6-59.7 mol%, with a range of 1.1 mol%, which were slightly lower than that of *A. bogorensis* (59.3-61.0 mol%), the type species of the genus \*Asaia\*. The isolates had morphological, physiological and biochemical characteristics similar to *A. bogorensis* strains, but the isolates did not produce acid from dulcitol. On the basis of the results obtained, the name \*Asaia\* siamensis sp. nov. is proposed for these isolates. Strain S60-1T, isolated from a flower of crown flower (dok rak, Calotropis gigantea) collected in Bangkok...

7/3,K/2 (Item 2 from file: 155)  
DIALOG(F) File 155: MEDLINE(R)